

NAVY REGION SOUTHWEST SUSTAINABLE SOLID WASTE PROGRAM

Construction and Demolition Debris Management



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SUSTAINABLE SOLID WASTE PROGRAM

- **Uses RCRA to define non-hazardous solid waste**
- **Establishes management standards**
 - **“Disposal as a last resort”**
 - **Promotes resourceful vs. wasteful paradigm**
- **Develops and implements policies**
- **Executes programs and operations for:**
 - **Construction and Demolition Debris Diversion**
 - **Integrated Solid Waste Management**
 - **Refuse and Recycling Operations**
 - **Military Industrial Waste Management**
 - **Disaster Debris Management**
 - **Furniture Reuse Program**



CONSTRUCTION & DEMOLITION DEBRIS MANAGEMENT

- **California Assembly Bill 939**
- **Local landfill scheduled to close in 2017**
 - Estimated annual \$8M increase in disposal costs
- **CNRSWINST 11350.1A**
 - Requires a solid waste management plan be submitted during planning phase of projects
 - Establishes monthly C&D reporting requirements
- ***2008 - 72,463 tons of C&D were diverted equating to an 84.81% diversion rate***
 - ***Saved approximately 300,000 cubic yards of landfill space***
- Currently tracking 248 projects throughout Navy Region SW



MAPPING TECHNOLOGY: ONE CLEAR PICTURE (OCP)

- **Technology to streamline SSW business line management**
 - Mapping tool using satellite imagery
 - Data-sharing, web-base program management
 - Manages data per construction or demolition project
- **Calculates solid waste diversion rates, cost savings, and verifies cost effectiveness of recycling**
- **Used daily by Management and Field Level SSW Personnel**
- **Available document repository per project**

A PICTURE PAINTS A THOUSAND WORDS

LIST OF C&D PROJECTS IN DATA BASE PER BASE OR REGION-WIDE

ISWMP Information and Mapping System - Microsoft Internet Explorer provided by NMCI

File Edit View Favorites Tools Help

Refuse Recycle Cancel

Select By Facility

ENTER FACILITY #(S):

SELECT INSTALLATION(S):

ALL
ADM BAKER
ASW
BROADWAY
CABRILLO

SELECT STATUS(ES):

ALL
Construction Scheduled
Construction Funded
Construction In-Progress

Execute CD Query

Add New Project

46 Rows Returned: 46 C&D Projects Involving 37 Buildings:

View On Map Reports Help

YOU ARE CURRENTLY LOGGED IN AS: ANONYMOUS

<< 1 >>

Facility Worksheet	Project Worksheet	STATUS	INSTALLATION NAME	PROJECT	BUILDING NUMBER	PROJECT INFO COLLECTION DATE	SCHEDULED FUNDING SOURCE	CONTR NUMBER
		Constructed	NBSD	Bldg. 3629		5/2/2007		F4168
		Construction In-Progress	NBSD	Boat lot		2/14/2007		NONE
		Construction In-Progress	NBSD	Pacific Beacon PPV		5/8/2007		DEMC R2020
		Demolished	NBSD	B-115	B-115	5/10/2007	PWC	NONE
		Demolished	NBSD	B-135	B-135	11/1/2004	PWC	DEMC
		Demolished	NBSD	B-160	B-160			
		Demolished	NBSD	B-163	B-163	10/1/2004		
		Demolished	NBSD	B-197	B-197		PWC	
		Demolished	NBSD	B-25	B-25	2/1/2005		
		Demolished	NBSD	B-252	B-252	2/1/2005		
		Demolished	NBSD	B-253	B-253	3/1/2005	PWC	
		Demolished	NBSD	B-3139	B-3139	9/1/2005	PWC	
		Demolished	NBSD	B-3358	B-3358		PWC	
		Demolished	NBSD	B-89	B-89	5/1/2006	PWC	

Start

Inbox - Microsoft Outlook

ISWMP OCP BRIEF MAY0...

ISWMP Information a...

14:04

ALL PROJECTS DISPLAY ON MAP

The screenshot displays a web-based map application interface. The main map area shows an aerial view of San Diego, with various project locations marked by colored icons (blue, red, yellow, green) and labels. The interface includes a top navigation bar with 'tools' and 'collaboration' tabs. A left sidebar contains a 'Construction and Demolition Palette' with a table of project types and statuses. A right sidebar shows 'Construction and Demolition Queries' with a list of project IDs and their corresponding icons.

Construction and Demolition Palette

Construction	Scheduled
Construction	Funded
Construction	In Progress
Construction	Completed
Demolition	Scheduled
Demolition	Funded
Demolition	In Progress
Demolition	Completed
Repair	Scheduled
Repair	Funded
Repair	In Progress
Repair	Completed
Renovation	Scheduled
Renovation	Funded
Renovation	In Progress
Renovation	Completed

Construction and Demolition Queries

Project ID	Icon
B-89	Red triangle
B-99	Red triangle
B-115	Red triangle
B-135	Red triangle
B-197	Red triangle
B-253	Red triangle
B-3139	Red triangle
B-3343	Blue triangle
B-3343	Blue triangle

VIEW INDIVIDUAL PROJECTS

CLICK ICON TO SHOW PROJECT WORK SHEET

The screenshot displays a web-based mapping application. The main map area shows an aerial view of San Diego, with a large green field labeled 'Pacific Beacon PPV' highlighted in yellow. A yellow hexagon icon with a 'C' is placed on the field. To the left of the map, a sidebar titled 'CONSTRUCTION AND DEMOLITION PROJECT WORKSHEET' contains various input fields and buttons. The top of the sidebar has a 'Close' button. The bottom right corner of the application features a panel titled 'Construction and Demolition Queries' with a 'New Projects' checkbox and a 'nbsd' button.

CONSTRUCTION AND DEMOLITION PROJECT WORKSHEET

Status: Construction In-Progress

Installation Name: NBSD

Project Name: Pacific Beacon PPV

Project Info Collected (Date): 5/8/2007

Building(s): NONE

Scheduled Funding Source: PPV

Contract Number: R20201-0006

Actual Funding Source: MILCON

Project Cost: \$40,000,000.00

Scheduled Start Date: 11/15/2006

Scheduled End Date: 12/31/2009

Actual Start Date: 11/15/2006

Actual End Date:

SWMP OAF: SWMP

SWMP OAF Approval Date: 11/14/2006

Diversion Report Received: Yes

Yards Diverted: 2180.93

Yards Landfilled: 2494.34

Construction and Demolition Queries

New Projects ☒

nbsd

LIST OF C&D PROJECTS IN DATA BASE PER BASE OR REGION-WIDE

ISWMP Information and Mapping System - Microsoft Internet Explorer provided by NMCI

File Edit View Favorites Tools Help

Refuse Recycle Cancel

Select By Facility

ENTER FACILITY #(S):

SELECT INSTALLATION(S):

ALL
ADM BAKER
ASW
BROADWAY
CABRILLO

SELECT STATUS(ES):

ALL
Construction Scheduled
Construction Funded
Construction In-Progress

Execute CD Query





























Add New Project

46 Rows Returned: 46 C&D Projects Involving 37 Buildings:

View On Map Reports Help

YOU ARE CURRENTLY LOGGED IN AS: ANONYMOUS

<< 1 >>

Facility Worksheet Project Worksheet	STATUS	INSTALLATION NAME	PROJECT	BUILDING NUMBER	PROJECT INFO COLLECTION DATE	SCHEDULED FUNDING SOURCE	CONTR NUMBER
 	Constructed	NBSD	Bldg. 3629		5/2/2007		F4168
 	Construction In-Progress	NBSD	Boat lot		2/14/2007		NONE DEMC R2020
 	Construction In-Progress	NBSD	Pacific Beacon PPV		5/8/2007		NONE DEMC
 	Demolished	NBSD	B-115	B-115	5/10/2007	PWC	NONE DEMC
 	Demolished	NBSD	B-135	B-135	11/1/2004	PWC	
 	Demolished	NBSD	B-160	B-160			
 	Demolished	NBSD	B-163	B-163	10/1/2004		
 	Demolished	NBSD	B-197	B-197		PWC	
 	Demolished	NBSD	B-25	B-25	2/1/2005		
 	Demolished	NBSD	B-252	B-252	2/1/2005		
 	Demolished	NBSD	B-253	B-253	3/1/2005	PWC	
 	Demolished	NBSD	B-3139	B-3139	9/1/2005	PWC	
 	Demolished	NBSD	B-3358	B-3358		PWC	
 	Demolished	NBSD	B-89	B-89	5/1/2006	PWC	

Start

Inbox - Microsoft Outlook

ISWMP OCP BRIEF MAY0...

ISWMP Information a...

14:04

ISWMP Information and Mapping System - Microsoft Internet Explorer provided by NMCI

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Copy Paste Address Bar

Links Customize Links EDS-NMCI Free Hotmail Homeport Windows Media Windows

Address http://iswmp.net/iswmp_containers_demo/iswmp_web_sheets.aspx Go

CONSTRUCTION AND DEMOLITION PROJECT WORKSHEET

Status:	Construction In-Progress	* Required
Installation Name:	NBSD	* Required
Project Name:	Pacific Beacon PPV	* Required
Project Info Collected (Date):	8/13/2007	* Required
Building(s):	NONE 1 North OTC NBPL 2 North OTC NBPL 2 South OTC NBPL	None
Scheduled Funding Source:	PPV	
Contract Number:	R20201-0006	
Actual Funding Source:	MILCON	
Project Cost:	\$40,000,000.00	
Scheduled Start Date:	11/15/2006	
Scheduled End Date:	12/31/2009	
Actual Start Date:	11/15/2006	
Actual End Date:		
SWMP OAF:	SWMP	
SWMP OAF Approval Date:	11/14/2006	
Diversion Report Received:	Yes	
Tons Diverted:	6295.89	
Tons Landfilled:	2942.87	
Percent Diverted:	68.15%	

Trusted sites

Start ISWMP Information a... Microsoft Office PowerPoi...

11:01

PROJECT WORKSHEET

Displays individual project General Info

- Project Status
- Installation
- Project Name
- Info Collection Date
- Building #
- Funding Source
- Contract #
- Project Cost
- Scheduled Start and End Dates
- Actual Start and End Dates
- Project Manager Name and Phone #

ISWMP Info

- SWMP or WAF Submittal and Approved Dates
- Diversion Reports Received
- Tons Diverted
- Tons Landfilled
- Percent Diverted
- Cost to Landfill
- Cost to Recycling/Divert
- Cost Avoidance

REPORT VERIFIES COST BENEFIT OF DIVERSION AND COMPLIANCE WITH CNRSWINST 11350.1A

TYPE	SITE	LANDFILL ED	COST	DIVERTED	COST	PERCENT DIVERTED	COST AVOIDANCE
Renovation In Progress	Housing NAB	4,597	\$91,940	7,536	\$45,970	62.11%	\$150,720
Demo'd	B-652 NBC	466	\$93,200	40,403	\$202,015	98.86%	\$1,474,709
Construction In Progress	Pacific Beacon PPV	2,688	\$107,548	2,236	\$43,618	45.40%	\$89,429
Constructed	Commiss ary	2,585	\$215,847	10,200	\$51,000	79.78%	\$545,700
Demolished	Q-35	250	\$108,000	540	\$25,000	68.35%	\$19,710
Construction In Progress	NEW MAIN GATE	105	\$21,000	460	\$11,500	81.42%	\$92,000
TOTAL		10,692	\$637,535	61,375	\$379,103	72.65%	\$2,372,268

- **63% OF THE TOTAL COSTS PAID FOR 15% OF THE MATERIAL TO BE LANDFILLED.**
- **37% OF THE TOTAL COSTS PAID FOR 85% OF THE MATERIALS TO BE RECYCLED!!!!**



CONCLUSION

- **Technology assists in compliance with CNRSWINST 11350.1A Construction and Demolition Debris Program**
- **Tracks solid waste diversion by project**
- **Verifies submission of solid waste management plan or opportunity assessment form**
- **More cost effective to divert than landfill waste**
- **Verifies economic feasibility goes hand-in-hand with environmental sustainability**